

### Abstract

The present invention provides a liquid level gage and an illuminator therefor. One embodiment of the liquid level gage includes a housing, a liquid column, an illuminator, and a power supply. The housing has a first or front end and a second or rear end. The liquid column includes a plurality of liquid column bodies connected to the front end of the housing. The liquid column also includes a first or front port assembly and a second or rear port assembly connected to each liquid column body. The liquid column is connected, either directly or indirectly, to a vessel. The illuminator includes a plurality of directed light source assemblies connected to the rear end of the housing. Half of the directed light source assemblies emit a first color light and half of the directed light source assemblies emit a second color light. A pair of bi-color directed light source assemblies (i.e., one directed light source assembly emitting the first color light and one directed light source assembly emitting the second color light) correspond to each liquid column body and pair of port assemblies (i.e., the front port assembly and the rear port assembly connected to the liquid column body). Each pair of bi-color directed light source assemblies is oriented with respect to the corresponding liquid column body and pair of port assemblies in such a way that the first color light passes through the corresponding liquid column body and pair of port assemblies when a liquid is present in the corresponding liquid column body and the second color light passes through the corresponding liquid column body and pair of port assemblies when a non-liquid is present in the corresponding liquid column body.

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